

Release Notes

hp StorageWorks SMI-S XP

Product Version: 2.0

First Edition: (September 2004)

Part Number: B9357-96102

This document summarizes the most recent product information about HP StorageWorks SMI-S XP 2.0. with HP StorageWorks Command View XP 2.0.



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Release Notes Information

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Intended Audience

This document is intended for customers who have installed HP StorageWorks SMI-S XP.

Other SMI-S XP Documentation

This SMI-S XP documentation set also includes the *HP StorageWorks Command View XP Installation Guide*.

Additional documentation is available at the following url: <http://www.hp.com>.

The SMI-S 1.02 specification is available at the following url: <http://www.snia.org>

SMI-S XP Overview

The XP arrays use the Storage Management Initiative Specification (SMI-S), which is a new standard developed by the Storage Networking Industry Association (SNIA). SMI-S XP 2.0 enables Common Information Model (CIM)-capable management software to manage XP arrays using SMIS 1.0.2. SMI-S XP resides on the Command View XP Management Station. SMI-S XP supports all the arrays that are supported by Command View XP 2.0.

Note: SMI-S XP was formerly called Smart Link XP.

SMI-S XP New Features

SMI-S XP 2.0 provides the following features:

- Profile
 - Array
- Subprofiles
 - Access points
 - Disk drive
 - Location
 - LUN creation
 - LUN masking and mapping
 - Pool manipulation capabilities and settings
 - Software
- Profile
 - Server
- Other Features
 - Service Location Protocol (SLP) discovery
 - Java Authentication and Authorization Service (JAAS) based security

Supported Operating Systems

SMI-S XP 2.0 is supported on all Windows Platforms that support Command View XP 2.0.

Supported Arrays

SMI-S XP 2.0 officially supports the following arrays:

- XP 128
- XP 1024

Data obtained from other arrays using SMI-S XP may not be accurate.

Command View XP Minimum Revision Level

SMI-S XP 2.0 is an integrated component of Command View XP 2.0. It is not compatible with CV XP 1.8x or other earlier versions.

Resolved Issues

SMI-S XP 2.0 includes fixes for the following defects:

- The `getinstance` call does not verify the values for all fields of the `CimObjectPaths (COP)`. All values except for `System Name` are not validated.
- The `Exception` class does not include generic exceptions and specific failure codes and messages.
- The `PhysicalMedia.Capacity` property does not display the value for the property capacity. The size of each disk drive cannot be ascertained.
- The `PhysicalMedia.Model` property does not display the value for the property model. The model of each disk drive cannot be ascertained.
- The value for the `PhysicalMedia.SerialNumber` property for a disk drive is incorrect. It does not display the serial number of the disk drive.
- The `PhysicalMedia.caption` property does not display the enclosure number and bay of the disk drive.
- The `PhysicalMedia.Manufacturer` property does not display the manufacturer name of the disk drive.
- SMI-S XP provider displays all ports as `NL` type.
- The value of `AllocatedFromStoragePool.SpaceConsumed` class displays only the size of the first `CU:LDEV` and the RAID overhead. It does not display the size and RAID overhead for all extents of a LUSE.
- The utility that verifies the provider version does not check the version of the `xpprovider.jar`.
- The `HPXP_ElementSettingData` class does not fetch data.
- The `SAPAvailableForElement Association` class is not implemented.
- A `LUN Creation` call returns success for a size that is not supported on the array.
- The LUN masking profile has duplicate association classes for the modeling association between logical devices and protocol controller.
- The associator calls do not retrieve instances of `StorageVolume` associated with `StoragePool` through the `AllocatedFromStoragePool` association.

Limitations

Following are the limitations in this release of SMI-S XP:

- SMI-S XP partially supports the Disk Drive subprofile. Following are the elements supported in this subprofile:
 - ConcreteComponent
 - DiskDrive
 - PhysicalMedia
 - Realizes
 - SoftwareIdentity
 - StorageExtent
- The CIMOM does not support wildcard queries.
- The CIMOM service may not respond when there are more than 32 TCP connections or when a large amount of data is requested over time. The CIMOM service must be restarted.
- The value `$$Not$$Set$$` is displayed as the hostname in the COP.
- The `getSupportedSizeRange()` and `getSupportedSizes()` storage pool methods are not implemented.
- The status of the `StorageSystem` property is always set to OK.
- The value for `MaxSpeed` for `FCPort` property is not set.
- The association `CIM_PhysicalElementLocation` from `CIM_Card` to `CIM_Location` is not supported.
- The capacity number of the storage pool does not account for the size of the other LDEVs for the LUS LUN type.
- The changes of set operation is visible only after the Refresh interval of the management station.
- The emulation type of the storage pool cannot be determined.
- When the providers are discovered through SLP, XP provides with the following url <http://servername> instead of <https://servername>.
- The format of the `RegisteredProfileSupported` attribute value is not correct. It is displayed as `RegisteredProfilesSupported=Array, Server`. The format must be `SNIA:Array, SNIA:Server`.
- The SLP SAs do not implement the registration packet.
- No data is available in the SSL mode. The provider does not throw any handshake exception.
- The CIMOM and provider logs do not provide a time stamp on the exceptions.
- The `webAccessPoint` `OperationalStatus` and `Status` properties are hard coded to OK.
- SMI-S XP 2.0 does not include Association `cim_installedsoftware` element to access the XP provider.
- SMI-S XP does not include single sign on to launch the context sensitive array manager.
- Instances of `CIM_SoftwareElement` associated with `CIM_ComputerSystem` for a computer system that is not dedicated throws an exception.

- The InstanceID property value for the StorageConfigurationCapabilities class does not use the preferred algorithm of <OrgID>:<LocalID>.
- The XP provider does not provide information on the disk firmware and status.
- The Associatorsname option does not populate data for physical packages that include association and physicalpackage as the result class. Data is populated for ReferenceNames and References option.
- The ProtocolControllerAccessesUnit association is not implemented.
- The StorageVolume.Name property does not include the World Wide Name (WWN).
- SMI-S XP 2.0 does not support lifecycle indications.

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